

Left Over

1

HTML Forms

- Used as front ends to server programs
 - Active Server Pages, Java Server Pages, PHP, servlets, ...
- Forms are user interface **controls** to collect data from user and transmit it to the server application program
- Forms are most common user interface method
 - Forms are placed on Web pages that can also have other elements
 - JavaScript (totally different than Java language!) can be used with HTML forms to enhance their operation
 - Java applets provide a richer user interface, are more complex and have security features. Not used much.
 - All of these run on the **browser** and are user interface components

2

How HTML forms transmit data

- Forms allow a series of controls to be placed on the page
 - Each control has a **name** and a **value**
 - Entire form is associated with the URL of a server side program that will process the input data
 - Form data is sent when user presses 'Submit' button (control)
 - Data is sent to URL as string of form:
 - `Name1=Value1&Name2=Value2&...NameN=ValueN`
 - If data is sent with HTTP GET command, it is appended to end of GET string after a ?:
 - `GET /Index.html?Name1=Value1...`
 - If data is sent with HTTP PUT command, it is sent after the blank line as the original string
 - Server programs (ASP, JSP, servlet, etc.) have methods to extract the data from the string and use it in the program
- Example: www.google.com

4

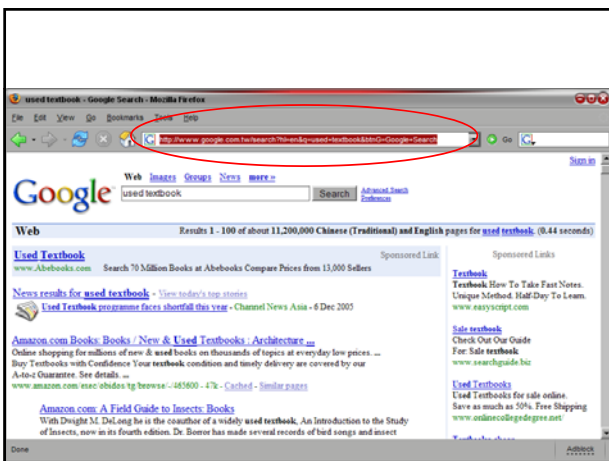
HTML 4.0 tags for Forms

Tag	Definition
<form>	Start a form
<input type=	
text	Single line of text entry
password	Single line password entry
file	File to upload, with "Browse" button
checkbox	Checkbox
radio	Radio button (option box)
image	A graphical submit button
hidden	Track user, store predefined inputs
submit	Submit button for form
reset	Button to restore default values
<select>	List box or combo box
<option>	Item in scrolling list or popup menu
<textarea>	Start multiple-line text entry field

6



3



Example (1/2)

```
<html>
<body>
<form>
  text input:      <input type=text> <BR>
  password input: <input type=password> <BR>
  file:           <input type=file> <BR>
  checkbox:       <input type=checkbox> <BR>
  radio:          <input type=radio> <BR>
  hidden:         <input type=hidden> <BR>
  image:          <input type=image src="buy.gif"> <BR>
  submit:         <input type=submit> <BR>
  reset:          <input type=reset> <BR>
</form>
</body>
</html>
```

[LINK](#)

In this example, a single form with several controls are created. However, these controls are useless until we define an ACTION

7

Example (2/2)

```
<html>
<body>
<form action="http://somesite.com/program/adduser" method="post">
  First name: <INPUT type="text" name="firstname"> <br>
  Last name:  <INPUT type="text" name="lastname"> <br>
  Email:      <INPUT type="text" name="email"> <br>
  <input type="radio" name="sex" value="Male"> Male <br>
  <input type="radio" name="sex" value="Female"> Female <br>
  <input type="submit" value="Send">
  <input type="reset">
</form>
</body>
</html>
```

[LINK](#)

<http://www.w3.org/TR/REC-html40/interact/forms.html#-17.3>

8

Important Attributes

```
<form action="http://someURL.php" method="post">
```

- **action:** defines the processing page to handle the data on the form filled by users
- **method:** defines how the data is sent to the processing page

```
<input type="text" name="firstname">
```

- **type:** defines what kind of control is used to get data
- **name:** defines an identifier for the action form to get data

9

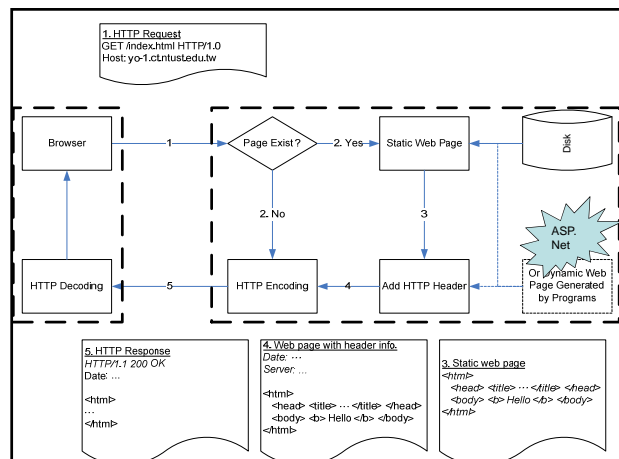
ASP.Net

Active Server Pages .Net

What is ASP.NET

- ASP: Active server pages
- .NET: .NET Framework
- ASP.NET is a server-side programming environment to create and run dynamic, interactive Web server applications and services.
 - Server-side scripting means computer codes (scripts) are executed on the web server.
 - Client-side scripting means computer codes are executed on the web browser.

<http://authors.aspalliance.com/aspextreme/webapps/aspnetarchitecture.aspx>
<http://www.west-wind.com/presentations/howaspnetworks/howaspnetworks.asp>



ASP.NET (2/2)

- Web server requirement for ASP.NET
 - Microsoft IIS
 - .NET Framework Runtime installed
 - Windows 2000+
- Web browser requirement
 - Since ASP.NET are server-side programs, it has nothing to do with the browser. However, the dynamically generated page still need to conform to W3C specifications.
- We are going to write very little ASP.NET code here. Most ASP.NET pages are generated “automagically” by Expression Web.

Assignment #7 (1/2)

- Due: 12/28/2011
- Assuming everyone has completed assignment #6 (thus we’ve completed a 2-tier application)
- In this assignment, we’re going to build a static website (without database connectivity) using Microsoft Expression Web.
<http://www.microsoft.com/expression/try-it/Default.aspx>

Assignment #7 (2/2)

- Please use Microsoft Expression Web’s template to create a web site for your company.
 - Please assume you’re starting up a business and try to make a good corporate image on the web. (in other words, make it pretty!)
 - Please include all web pages for your core function. For now, just leave them as blank or “under construction”.
 - Note: TRY TO BE CURIOUS
 - Try observe HTML codes generated by Expression Web to familiarize yourself with HTML. If you are already familiar with HTML, try to predict what kind of tags Expression Web will generate for you.
 - Try to be curious about the functions & formats provided by Expression Web.

Lecture 14

Microsoft Expression Web

16

Assignment #7 (1/2)

- Assuming everyone has completed assignment #6 (thus we’ve completed a 2-tier application)
- In this assignment, we’re going to build a static website (without database connectivity) using Microsoft Expression Web.
<http://www.microsoft.com/expression/try-it/Default.aspx>

Assignment #7 (2/2)

- Please use Microsoft Expression Web’s template to create a web site for your company.
 - Please assume you’re starting up a business and try to make a good corporate image on the web. (in other words, make it pretty!)
 - Please include all web pages for your core function. For now, just leave them as blank or “under construction”.
 - Note: TRY TO BE CURIOUS
 - Try observe HTML codes generated by Expression Web to familiarize yourself with HTML. If you are already familiar with HTML, try to predict what kind of tags Expression Web will generate for you.
 - Try to be curious about the functions & formats provided by Expression Web.

Database Connectivity

Demonstration